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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/679,096	10/04/2000	Sol Aisenberg	EXC-0001	9651
23413 75	10/21/2002			
CANTOR CO	•	EXAMINER		
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			JEFFERY,	JOHN A
			ART UNIT	PAPER NUMBER
			3742	1//
			DATE MAILED: 10/21/2002	(18

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application N	o. •	Applicant(s)			
Office Action Summary		09/679,096		AISENBERG ET AL.			
		Examiner		Art Unit			
	•	John A. Jeffery		3742			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NO - Failui - Any r earne	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION.  Issions of time may be available under the provisions of 37 CFR 1.1  SIX (6) MONTHS from the mailing date of this communication.  period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, ho by within the statutory r will apply and will expi e, cause the application	wever, may a reply be time ninimum of thirty (30) days re SIX (6) MONTHS from t n to become ABANDONED	ely filed will be considered timely he mailing date of this co 0 (35 U.S.C. § 133).			
Status 1)⊠	Responsive to communication(s) filed on 30 /	August 2002					
2a)□		nis action is non	final				
<i>′</i> _	,			accution as to th	o morito io		
3)	Since this application is in condition for allowated closed in accordance with the practice under				e ments is		
·	on of Claims						
-	Claim(s) <u>36-43</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdra	wn from conside	eration.				
·	Claim(s) 41 and 43 is/are allowed.						
·	Claim(s) 36-40 and 42 is/are rejected.						
· · · · ·	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/o	or election requi	rement.				
· · ·	on Papers	_					
·	The specification is objected to by the Examine		atad ta bu tha Evan	a imar			
10)[_]	The drawing(s) filed on is/are: a)☐ acce Applicant may not request that any objection to th		•				
11)[]]	The proposed drawing correction filed on				or		
,	If approved, corrected drawings are required in re			vod by the Examina	or.		
12) The oath or declaration is objected to by the Examiner.							
• —	nder 35 U.S.C. §§ 119 and 120						
	Acknowledgment is made of a claim for foreign	n priority under	35 U.S.C. & 119(a)	-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:							
-/-	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
	) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domest						
Attachment(s)							
2) D Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) [ 5) [ 6) [	_	(PTO-413) Paper No atent Application (PT	· · · — —		

Application/Control Number: 09/679,096

Art Unit: 3742

#### **DETAILED ACTION**

## Statutory Text Omitted

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 36-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilbertson (US4634839) in view of Tomaro (US4327278) and further in view of Nosenchuck (US5841943). Gilbertson (US4634839) discloses an electrically heated dryer with a blower for directing air via cylindrical nozzle 34. See Col. 1, lines 5-15. The claim differs from the previously cited prior art in calling for the blower to generate an air velocity of no less than 18,000 fpm. According to the instant specification on Page 17, lines 10-15, to achieve such an airflow rate, a motor that operates at greater than 15,000 rpm must be used. While the specific air velocity of the blower of the previously described apparatus is not recited, providing blowers which operate in

Application/Control Number: 09/679,096

Art Unit: 3742

excess of 15,000 rpm in electrically heated hair dryers is conventional and well known in the art as evidenced by Tomaro (US4327278) noting Col. 2, lines 55-57 wherein a blower motor with a loaded speed of 19,000 rpm is disclosed. In view of Tomaro (US4327278), it would have been obvious to one of ordinary skill in the art to utilize a blower motor in excess of 15,000 rpm in the previously described apparatus in order to increase the rotational rate of the blower thereby increase the heated airflow issuing therefrom. While motor rotation rate is not the only parameter involved that affects airflow, it is a substantial factor in achieving a desired flow rate. This is evidenced by Applicant's point in the specification noting the criticality of the motor rpm value of greater than 15,000 rpm. Moreover, the design techniques to achieve a desired heat output of a dryer for human use is well known to those skilled in the art. According to Nosenchuck (US5841943) in col. 7, lines 45-54, the choice of (1) the shape of the dryer housing and outer duct, (2) the axial length of the annular duct, (3) the variation in area of such annular duct, (4) the number of stator and rotor stages, (5) the shapes and number of blades are "all capable of being chosen by those skilled in the art using principles of aerodynamics and fluid mechanics." (emphasis added.) See generally Nosenchuck (US5841943), col. 7, lines 34 - col. 8, line 65. To determine the heat output of the dryer, the well-known equation as shown in col. 7, line 65 is used. As noted in col. 8, lines 2-5, the maximum exit air temperature is set by established industry standards. Thus, the required mass flow can be determined using the equation. Moreover, the airflow envelope of the ducts is typically chosen according to known engineering design principles. The airflow exit velocity being an important parameter in

Application/Control Number: 09/679,096

Art Unit: 3742

that regard. Col. 8, lines 35-42. Once the total mass flow is determined, the required dimensions for the ducts can then accordingly be determined. Col. 8, lines 42-53. Thus, in view of Nosenchuck, the specific parameters affecting air flow rate which ultimately affects the heat output of the dryer of the base references are all design choices using well-known principles of aerodynamics and fluid mechanics and are therefore within the level of one of ordinary skill in the art. Furthermore, it is well settled that where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In re Aller, 220 F.2d 454, 456, 105 USPQ 233,235 (CCPA 1955). Here, choosing the specific parameters of other factors influencing airflow rate such as fan blade size, angle, and the like to maximize the flow rate of aspirated air in a heated air blower is well within the parameters of routine experimentation. Furthermore, while the specific (1) outlet size, (2) outlet length, (3) air jet pressure, and (4) air jet temperature are not specified. choosing the optimum (1) dimensions for the outlet, (2) air jet pressure, and (3) air jet temperature to achieve a desired convective heating effect is well within the level of one of ordinary skill in the art and would be the product of routine experimentation and optimization.

Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gilbertson (US4634839) in view of Tomaro (US4327278), Nosenchuck (US5841943), Rose (US4461439), and further in view of Clemens (US2634514). The claim differs from the previously cited prior art in calling for the dryer to be wall-mounted. Mounting a

Page 5

Application/Control Number: 09/679,096

**Art Unit: 3742** 

handheld dryer on the wall is conventional and well known in the art as evidenced by Rose (US4461439) noting mounting stand 10 which enables the handheld dryer to be wall-mounted thereby facilitating drying functions without the need to hold the dryer. In view of Rose (US4461439), it would have been obvious to one of ordinary skill in the art to wall-mount the dryer of the previously described apparatus in order to facilitate drying functions without the need to hold the dryer. The claim also differs from the previously cited prior art in calling for the air jet to be angled towards the wall to blow water away from the user. Angling an air outlet such that water is blown away from the user is conventional and well known in the art as evidenced by Clemens (US2634514) noting angled outlet 12 which directs air such that "the air has no tendency to blow droplets form the user's hands onto his clothing." Col. 3, lines 25-31. In view of Clemens (US2634514), it would have been obvious to one of ordinary skill in the art to provide an angled outlet in the previously described apparatus so that water was directed away from the user during use.

# Allowable Subject Matter

Claims 41 and 43 are allowable over the art of record.

### Response to Arguments

Applicant's arguments have been considered but are deemed to be moot in view of the new grounds of rejection.



Art Unit: 3742

#### Conclusion

Any inquiry concerning this or earlier communications from the examiner should be directed to John A. Jeffery at telephone number (703) 306-4601 or fax (703) 305-3463. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM EST. The examiner can also be reached on alternate Fridays.

The fax phone numbers for the organization where this application or proceeding is assigned are:

Before Final	(703) 872-9302
After Final	(703) 872-9303
Customer Service	(703) 872-9301

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0861.

JOHN A. JEFFERY PRIMARY EXAMINER

10/17/02